PATENT COOPERATION TREATY

TRANSLATION INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference P04-112			FOR FURTHER ACTION		See Form PCT/IPEA/416			
International application No.			International filing da	ite (day/month/year)	Priority date (day/month/year)			
PCT/JP2004/014123			17.09.2004		19.09.2003			
International Patent Classification (IPC) or national classification and IPC A61K33/06 , 31/352, 31/593, 35/78, A61P1/02								
Applicant SUNSTAR INC.								
 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 								
2. This R	REPORT consists	of a total of _5	<u> </u>	sheets, includi	ng this cover sheet.			
3. This re	This report is also accompanied by ANNEXES, comprising:							
а. 🗌	sent to the	applicant and to	o the International Bi	ureau) a total of	sheets, as follows:			
	sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).							
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.								
ь. Г	(sent to the	International B	<i>ureau onl</i> y) a total of	(indicate type and numb	per of electronic carrier(s))			
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, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).								
4. This re	eport contains ind	lications relating	g to the following iter	ns:				
\boxtimes								
	Box No. II	Priority						
\boxtimes	Box No. III		nment of opinion with	h regard to novelty, inventive step and industrial applicability				
Ī	Box No. IV			,,				
\boxtimes	Box No. IV Lack of unity of invention Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
	Box No. VI	Certain docu						
	Box No. VII Certain defects in the international application							
	Box No. VIII Certain observations on the international application							
Date of submission of the demand Date of completion of this report								
					•			
Name and mailing address of the IPEA/JP				Authorized officer				
Faccinila No.				Telephone No.				

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2004/014123

Вох	No. I	Basis of the report					
1.		egard to the language, this report is based on the internation	nal application in the language in which it was filed, unless otherwise				
	This report is based on translations from the original language into the following which is the language of a translation furnished for the purposes of:						
		international search (Rule 12.3 and 23.1(b))					
		publication of the international application (Rule 12.4)					
	L	international preliminary examination (Rule 55.2 and/o					
2.	receivin this rep	ng Office in response to an invitation under Article 14 are	report is based on (replacement sheets which have been furnished to the referred to in this report as "originally filed" and are not annexed to				
		he description:					
	р	pages	as originally filed/furnished				
	р	ages*	received by this Authority on				
	р	ages*					
		he claims:					
	n	ios.	as originally filed/furnished				
		105.*	as amended (together with any statement) under Article 19				
		· · · · · · · · · · · · · · · · · · ·	received by this Authority on				
		105.*					
		he drawings:					
		heets	as originally filed/furnished				
		heets*					
		heets*					
		sequence listing and/or any related table(s) – see Supplem					
			DON Relating to bequeive 2.5.11.g.				
3.	י וביי	The amendments have resulted in the cancellation of:					
		the description, pages	<u> </u>				
	_ 	the claims, nos.					
	F	7					
	F	¬					
4.		any table(s) related to sequence listing (specify):	ments annexed to this report and listed below had not been made, since				
4.		hey have been considered to go beyond the disclosure as fil					
	Ĺ	the description, pages					
	L	the claims, nos.					
		the drawings, sheets/figs					
		the sequence listing (specify):					
		any table(s) related to sequence listing (specify):					
*	If item	4 applies, some or all of those sheets may be marked "supe	erseded."				

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Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability									
The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:									
the entire international application									
claims Nos. 7–11									
because:									
the said international application, or the said claims Nos									
The subject matter set forth in claims 7 to 11									
-									
pertains to a method of treatment of the human body by									
therapy or surgery, and diagnostic methods.									
the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):									
the claims, or said claims Nos are so inadequately supported by the description that no meaningful opinion could be formed.									
no international search report has been established for said claims Nos. 7-11									
the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:									
the written form has not been furnished									
does not comply with the standard									
the computer readable form has not been furnished									
does not comply with the standard									
the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.									
See Supplemental Box for further details.									

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citations and explanations supporting such statement					
1.	Statement				
	Novelty (N)	Claims	6	YES	
		Claims	1-5	NO NO	
	Inventive step (IS)	Claims		YES	
		Claims	1-6	NO	
	Industrial applicability (IA)	Claims	1-6	YES	
		Claims		NO NO	

- 2. Citations and explanations (Rule 70.7)
 - Document 1: JP 11-243910 A (Sunstar, Inc.), 14 September 1999
 - Document 2: JP 2002-121133 A (Sunstar, Inc.), 23 April 2002
 - Document 3: JP 2002-121146 A (Sunstar, Inc.), 23 April 2002
 - (i) The inventions set forth in claims 1 to 5 lack novelty and do not involve an inventive step in the light of documents 1, 2 and 3.

Document 1 sets forth a food composition for prevention of periodontal disease and for prevention of progress of periodontal disease (claim 1, embodiments, etc.). Document 1 also indicates that said composition is efficiently accumulated in alveolar bone tissue after calcium has been absorbed in the body after passing through the bowel, and that said composition is effective in preventing periodontal disease and preventing progress of periodontal disease (paragraph [0008]). Moreover, genistein and daidzein are given as examples of isoflavone extracts (paragraph [0011]).

Document 2 sets forth a tablet dissolving in the oral cavity for prevention of periodontal disease,

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

containing soybean isoflavone extract, calcium and vitamin D_3 (claim 1, embodiments). In addition, isoflavone glycoside is given as an example of soybean isoflavone extract (paragraph [0012]).

Document 3 sets forth a preparation for prevention of periodontal disease, containing soybean isoflavone aglycon, calcium and vitamin D_3 (claim 1, embodiments). Document 3 also indicates that said preparation is a preparation for prevention of periodontal disease, which is particularly effective in post-menopausal women and people who are susceptible to lowering bone density, based on the activity of suppressing alveolar bone absorption of soybean isoflavone aglycon (paragraph [0031]).

(ii) The invention set forth in claim 6 does not involve an inventive step in the light of documents 1 to 3 cited in the international search report.

In the inventions set forth in documents 1 to 3, a person skilled in the art would be able to adjust and optimize as necessary the percentage of daidzein and genistein contained in soybean isoflavone aglycon, and said technical matter does not offer a special effect.